

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. Contract ID Code Firm-Fixed-Price		Page 1 Of 32	
2. Amendment/Modification No.  0007		3. Effective Date		4. Requisition/Purchase Req No.  SEE SCHEDULE		5. Project No. (If applicable)	
6. Issued By TACOM AMSTA-LC-CJEB MARCIA CZAR (810)574-6278 WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL EMAIL: CZARM@TACOM.ARMY.MIL		Code W56HZV		7. Administered By (If other than Item 6)  <div style="display: flex; justify-content: space-between;"><span>SCD</span><span>PAS</span><span>ADP PT</span></div>			
8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code)				<input checked="" type="checkbox"/>			
				9A. Amendment Of Solicitation No. DAAE07-00-R-T019			
				9B. Dated (See Item 11) 2000JUL28			
				10A. Modification Of Contract/Order No.			
				10B. Dated (See Item 13)			
Code		Facility Code					
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>							
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing items 8 and 15, and returning <u>2 signed</u> copies of the amendments: (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. <b>FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.</b> If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. Accounting And Appropriation Data (If required)							
<b>13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS</b> It Modifies The Contract/Order No. As Described In Item 14.							
<input type="checkbox"/> A. This Change Order is Issued Pursuant To: <span style="float: right;">The Changes Set Forth In Item 14 Are Made In</span> The Contract/Order No. In Item 10A.							
<input type="checkbox"/> B. The Above Numbered Contract/Order Is Modified To Reflect The Administrative Changes (such as changes in paying office, appropriation data, etc.) Set Forth In Item 14, Pursuant To The Authority of FAR 43.103(b).							
<input type="checkbox"/> C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of:							
<input type="checkbox"/> D. Other (Specify type of modification and authority)							
<b>E. IMPORTANT:</b> Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the Issuing Office.							
14. Description Of Amendment/Modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  SEE SECOND PAGE FOR DESCRIPTION							
15A. Name And Title Of Signer (Type or print)				16A. Name And Title Of Contracting Officer (Type or print)			
15B. Contractor/Offeror  _____ (Signature of person authorized to sign)		15C. Date Signed		16B. United States Of America  By _____ (Signature of Contracting Officer)		16C. Date Signed	
NSN 7540-01-152-8070 PREVIOUS EDITIONS UNUSABLE				30-105-02		STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243	

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

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SECTION A - SUPPLEMENTAL INFORMATION

1. The purpose of this Amendment is to make the following changes:

a. The solicitaion has been revised as follows:

SECTION B

b. CLIN 7000, under the Unit and Direct Support Maintenance Class for NET-1; has been revised from "Payment will be withheld until all training classes have been complete." to "The Contractor will submit Payment Documentation to the Government at the successful conclusion of each individual class for each causeway system listed above for payment."

SECTION C

c. Section C.3.3 has been revised.

d. Section C.6.1.2 has been deleted.

e. Sections C.7.3 and C.13.4.1 have been added.

SECTION E

f. Sections E.9.2, E.9.3, and E.9.4 all have been revised.

SECTION I

g. Clause 52.248-1 Value Engineering has been added.

h. Clause 52-227-3 Patent Indemnity has been added.

i. Clause 52.227-11 Patent Rights - Retention by the Contractor Short Form has been added.

j. Clause 52.227-12 Patent Rights - Retention by the Contractor Long Form Alt II has been added.

k. Clause 252.227-7034 Patents - Subcontracts has been added.

SECTION J

1. Section J, Attachment 1, Purchase Description has been revised and dated 27 Oct 2000, as follows:

page 5 is revised from "Katherine Buccellato, buccellk@ tacom.army.mil to Marcia Czar, czarm@tacom.army.mil"; Section 3.3.6.2 has been revised; Section 3.3.7.15.1 has been revised; Section 3.3.7.16.1 and 3.3.7.16.2 has been revised; Section 3.3.8 has been revised; Section 3.3.15.7.1 and 3.3.15.7.2 has been revised; Page 44, Item #158 has been reivsed; Section 4.5.10.5 has been revised; Section 4.5.18 has been revised; and Section 4.5.24 has been revised.

SECTION K

m. Clause 52.215-4 Type of Business Organization has been deleted.

n. Clause 52.211-4034 Identification of Offered Part Number has been deleted.

SECTION L

o. Clause 52.215-1 Instructions to Offerors--Competitive Acquisitions (Alt I and Alt II) has been added.

p. Section L.2.2 has been revised.

q. Sections L.2.2.1, L.2.2.2, and L.2.2.3 has been added.

SECTION M

r. Clause 52.247-51 Evaluation of Export Offers, section (d) is changed to read Ports of Loading is now Ft. Eustis, VA.

s. Section M.4.2 has been revised.

ATTACHMENT 001

t. Attachment 001 Purchase Description has been revised with the following changes and dated 27 Oct 2000:

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page 5 is revised from "Katherine Buccellato, buccellk@ tacom.army.mil to Marcia Czar, czarm@tacom.army.mil"; Section 3.3.6.2 has been revised; Section 3.3.7.15.1 has been revised; Section 3.3.7.16.1 and 3.3.7.16.2 has been revised; Section 3.3.8 has been revised; Section 3.3.15.7.1 and 3.3.15.7.2 has been revised; Page 44, Item #158 has been reivsds; Section 4.5.10.5 has been revised; Section 4.5.18 has been revised; and Section 4.5.24 has been revised.

The Purchase Description is not a physical part of Amendment 0007 and can be found on the Modular Causeway web page <http://contracting.tacom.army.mil/majorsys/mcs/mcs.htm>).

2. As a result of changes to the above Sections C, E, I, K, L, and M, the whole section is substituted with the Sections C, E, I, K, L, and M in this Amendment.

3. As a result of changes make to Section B, CLIN 7000, page 51 is substituted with the Section B, CLIN 7000 in this Amendment.

4. As a result of revised sections and pages to the Purchase Description (PD), Section J has been updated to show new date of 27 Oct 2000, and the following changes have been made as follows:

page 5 is revised from "Katherine Buccellato, buccellk@ tacom.army.mil to Marcia Czar, czarm@tacom.army.mil"; Section 3.3.6.2 has been revised; Section 3.3.7.15.1 has been revised; Section 3.3.7.16.1 and 3.3.7.16.2 has been revised; Section 3.3.8 has been revised; Section 3.3.15.7.1 and 3.3.15.7.2 has been revised; Page 44, Item #158 has been reivsds; Section 4.5.10.5 has been revised; Section 4.5.18 has been revised; and Section 4.5.24 has been revised.

Attachment 001 Purchase Description has been substituted with the Purchase Description dated 27 Oct 2000.(See Modular Causeway web page <http://contracting.tacom.army.mil/majorsys/mcs/mcs.htm>).

5. All other terms and conditions of the solicitation remain in full force.

\*\*\* END OF NARRATIVE A 006 \*\*\*

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
7000	<p>SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS</p> <p><u>Supplies or Services and Prices/Costs</u></p> <p><u>TRAINING - SEPARATELY PRICED</u></p> <p>NOUN: TRAINING SECURITY CLASS: Unclassified</p> <p>Training shall be IAW C.14 and the terms and conditions of the contract. (Reference CDRLs A015-A024)</p> <p>Training for each system consists of the following:</p> <p><u>For informational purposes, the offerors shall fill in the below:</u></p> <p>Operation/Operator Maintenance Class for Tester Training:</p> <p>CF                    1 Class                    \$ _____</p> <p>Unit and Direct Support Maintenance Class for Tester Training:</p> <p>CF                    1 Class                    \$ _____</p> <p>Operation/Operator Maintenance Class for I&amp;KPT:</p> <p>RRDF                1 Class                    \$ _____ CF                    1 Class                    \$ _____ FC                    1 Class                    \$ _____ WT                    1 Class                    \$ _____</p> <p>Unit and Direct Support Maintenance Class for I&amp;KPT:</p> <p>RRDF                1 Class                    \$ _____ CF                    1 Class                    \$ _____ FC                    1 Class                    \$ _____ WT                    1 Class                    \$ _____</p> <p>Operation/Operator Maintenance Class for NET-1:</p> <p>RRDF                2 Classes                    \$ _____ CF                    2 Classes                    \$ _____ FC                    2 Classes                    \$ _____ WT                    2 Classes                    \$ _____</p> <p>Unit and Direct Support Maintenance Class for NET-1:</p> <p>RRDF                2 Classes                    \$ _____ CF                    2 Classes                    \$ _____ FC                    2 Classes                    \$ _____ WT                    2 Classes                    \$ _____</p> <p>"The Contractor will submit Payment Documentation to the Government at the successful conclusion of each individual class for each causeway system listed above for payment."</p> <p>(End of narrative B001)</p>				\$ _____



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SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 Scope

There are four separate modular causeway systems: Roll-On/Roll-Off Discharge Facility (RRDF), Causeway Ferry (CF), Floating Causeway (FC), and Warping Tug (WT). The work requirements described herein pertain to these systems, the support of the systems, and to management of program risk.

C.2 General requirements

The contractor shall build, test, deliver and support modular causeway systems to include any design effort required; perform system supportability analysis/deliver Logistics Management Information (LMI); and team with the United States Government (USG) in program risk management in accordance with this Scope of Work (SOW), the attached ATPD 2280 dated 18 July 2000 and all other terms and conditions of the contract. The contractor shall provide the necessary resources, equipment, and facilities to meet performance, cost and schedule objectives in accomplishing these efforts. The contractor shall use commercial products, processes, and practices to the maximum extent practicable to reduce development, production and operational support costs.

C.2.1 Data

The contractor shall prepare deliverable program data in accordance with the format and content specified in the Data Item Descriptions (DIDs) and deliver the data in accordance with the Contact Data Requirements Lists (CDRLs). Use of contractor format and electronic submission will be stressed by the USG and will be indicated where applicable. Data shall be in American English and be MS Windows95/MS Office 97 Professional software compatible to the maximum extent practicable. Drawings shall be prepared in accordance with ASME Y 14.100M and submitted in AutoCAD (Release 14 or higher) or Portable Document Files (.pdf) as indicated.

C.2.2 Environment

The contractor shall minimize the generation of industrial pollution or hazardous wastes in performing work under this contract. National Aerospace Standard 411 may be used as guidance.

C.2.3 Days

All reference to "days" in section C shall be construed as calendar days unless otherwise noted.

C.2.4 Cost As An Independent Variable (CAIV)/Life Cycle Costs (LCC)

The contractor shall consider the Government's desire to minimize unit production cost following the principles of CAIV. Further, the contractor shall consider impact of work efforts on cost of ownership/LCC.

C.3 Program management

C.3.1 Government/contractor team

A joint government/contractor team shall be established thirty (30) days after contract award. The primary purpose of this team shall be to address program risk through the monitoring and coordination of contract activities as they affect performance, cost, and schedule objectives. In addition to government personnel, this team shall be composed of contractor personnel from a variety of functional disciplines sufficient to insure availability of complete, timely and accurate program information to the team.

C.3.2 Integrated Program Reviews (IPRs)

All contractor/government formal meetings conducted for the purpose of reviewing and discussing overall program status shall be referred to as IPRs. The contractor shall host at least four but no more than six (6) IPRs per year. The Government will schedule these meetings. The location shall be at the contractor's facilities, or elsewhere if mutually agreed upon. The contractor shall suggest agenda topics in contractor format to the Government twenty (20) days prior to the start of the meetings. The Government will finalize and publish the agenda ten (10) days prior to the meeting. There shall be additional topic specific meetings (for example, publication, provisioning, design/engineering, and training reviews) as described elsewhere in the contract.

C.3.2.1 Conference Minutes (CDRL A001)

The contractor shall submit a draft of the minutes of each IPR to the Government within ten (10) days following the meeting. The Government will review and provide comments within ten (10) days after receipt. The contractor shall incorporate government comments and publish the minutes within five (5) days after receipt of government comments.

C.3.3 Start of Work

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The contractor shall participate in a Start of Work meeting within thirty (30) days after contract award at the contractor's facility. The Government will schedule the meeting. Of particular interest to the Government is a discussion of how the contractor will ensure that all interoperability and interchangeability requirements will be met. The discussion shall address the methodology used during the engineering, design and analysis phase, and how the contractor plans to account for the variations of configuration and tolerance exhibited in the existing causeway fleet. The contractor shall describe his plans to use that data to control his design, as it matures, so that the product being delivered appears seamless in form, fit and function with the rest of the causeway fleet.

C.4 Testing strategy

C.4.1 Interoperability and interchangeability test

The contractor shall perform tests to verify the interoperability and interchangeability of intermediate section mating to include side to side connection and section end to section end connection within the first six months after contract award. The purpose of this testing shall be to verify interoperability and interchangeability early in the program of modules, strings and sections. The Government may witness this testing. The USG shall be notified fifteen (15) days prior to the start of this testing. The results of these functional tests will be part of the First Article Test (FAT). The results of this functional testing shall be documented for verification and incorporated into the FAT plan.

C.4.2 Test plan

The contractor shall develop and maintain a master test plan available for government review in order to assess the contractor's ability to meet testing requirements. A draft plan shall be available for government review prior to the start of FAT. The plan shall indicate procedures to follow during the testing of each item as described in the ATPD. The Government will review and comment on the plan at IPRs and copies shall be available at the performance of each test.

C.4.3 Test Support Package (TSP)

The TSP is an onsite composite package of support for government testing (the CF Operational Demonstration (OP DEMO)) or technical manual verification. All items that comprise a TSP shall be the same configuration and source used on the production of the modular causeway systems. The TSPs shall include whatever the contractor deems necessary to support the testing or verification. At a minimum, it shall include, but is not limited to, spare and repair parts, special tools, and equipment publications. If any testing requires retest, then the TSP shall be updated and the updated TSP shall be available at the time of retest. The contractor shall assemble, furnish, pack and ship the TSP to the designated site(s) (anticipated to be in the Hampton Roads, VA area). The contractor shall fill any support deficiencies within 24 hours of notification by the Government.

C.5 Quality Assurance

C.5.1 Quality system

The contractor shall implement and maintain a quality system that ensures the functional and physical conformity of all products or services furnished under the contract. The quality system shall achieve defect prevention and process control, providing adequate quality controls throughout all areas of contract performance. At any point during contract performance, the Government has the right to review the contractor's quality system to assess its effectiveness in meeting contractual requirements.

C.5.1.1 Quality inspection

The contractor shall perform in-process inspections as necessary. These inspections shall evaluate the conformance of materials, welding, workmanship, and processes to contractual and purchase description requirements. The Government reserves the right to either witness or conduct its own in-process inspections. All in-process government inspections conducted during fabrication shall be made at the contractor or subcontractor's facility prior to the application of primer or paint.

C.5.1.2 Inspection equipment

The contractor shall supply and maintain all inspection and test equipment necessary to assure the modular causeway systems conform to contract requirements. The contractor shall make available to the Government applicable and necessary inspection equipment for government system inspections.

C.5.1.3 Quality records

All records of inspections, examinations, certifications, tests, supplier audits, and purchase orders, shall be retained by the contractor for a period of four (4) years after contract completion. These records shall be made available to the Government upon request.

C.5.2 Welding procedure qualification

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All welding procedures and welding equipment shall be qualified IAW the American Welding Society (AWS) code AWS D1.1 for Structural Steel, AWS D1.2 for Structural Aluminum or AWS D1.3 for Sheet Metal as applicable. All welders and welding operators to perform manual, semi-automatic or automatic welding shall be qualified IAW the applicable AWS standard. The contractor shall verify weld quality and workmanship using qualified inspectors trained to perform these inspection functions. Acceptable qualifications may be based on one of the following:

- Current or previous certification as an AWS certified welding inspector;
- Current or previous certification by Canadian Welding Bureau;
- Inspection performed by an engineer or technician who is competent in the use of weld inspection techniques and equipment (on the basis of formal training, documented experience, or both), and in metals fabrication, inspection, and testing of weldments.

C.6 Configuration management

The Government retains control of the purchase description. The contractor shall establish and control the configuration baseline. This baseline shall identify and document the functional and physical characteristics of the modular causeway systems and be maintained for the life of the contract. Except as provided herein, all systems delivered under this contract shall be identical in configuration to the contractor's final approved first article configuration baseline of the systems.

C.6.1 Engineering Change Proposals (ECPs) (CDRL A002)

The Government acknowledges that the contractor may want to offer changes to the configuration during the term of this contract after First Article Test (FAT) approval. However, it is important for the Government to assess the impact of any proposed changes to the logistic and technical requirements established for the program. The contractor shall request government approval of any proposed configuration change after FAT approval that affects form, fit, function and/or interface. The procedures for government notice and approval shall apply.

C.6.1.1 Engineering change inspection and test

The Government reserves the right to require additional testing at contractor expense if the Government believes any proposed engineering change may have a potential negative impact on the ability of the product to meet the requirements of the system purchase description.

C.6.1.2 DELETED (RESERVED)

C.6.1.3 Final disposition

Government approval shall not be construed as relieving the contractor from its responsibility to furnish all items in conformance with contract requirements.

C.6.1.4 Government directed changes

In the event the Government contemplates a change in the modular causeway systems, the contractor shall provide a technical/price proposal.

C.6.1.5 Effectivity certification

Actual cut-in of approved changes into the production line shall be at a single cut-in point (single module). The contractor shall maintain the original effectivity point certification on file.

C.6.2 Drawings

The contractor shall develop, maintain and have available for government review at the design reviews, As-Built and Interface Control drawings as described.

C.6.2.1 As-Built Drawings (CDRL A003)

The contractor shall create drawings that provide sufficient information to allow the government to repair/refurbish the components of the modular causeway systems. The drawings shall be either Layout, Monodetail or Assembly type drawings or a combination of these types as described in ASMEY14.24M and shall specify all physical and functional characteristics of systems components that are required in order to repair and refurbish the modular causeway systems.

C.6.2.2 Interface Control Drawings (CDRL A004)



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The contractor shall create an Interface Control Drawing for the MCS components. The Interface Control Drawing shall be as described in ASME Y14.24M and shall specify all characteristics of system components that are required in order to achieve the interoperability and interchangeability requirements for the modular causeway system. It shall specify all geometry, dimensions, tolerances, sizes, finishes, component standards, capacities, and operating values (such as pressures, voltages, temperature ranges, flow rates, etc.) that are required to define the interface for all connecting components and sub-systems. This interface drawing shall include all information necessary for the contractor, or any other entity, to design all MCS components that are fully physically and functionally interoperable and/or interchangeable as required by this contract. The interface drawing shall include a graphic representation of the geometry and tolerances for all interfaces.

C.7 Government Furnished Property (GFP)

C.7.1 Support GFP

The Government will provide the following GFP in accordance with the government property clause to support various work efforts under this contract:

- 1 ea SINCGARS radio
- 3 ea center modules
- 2 ea right end rake modules
- 2 ea left end rake modules
- 2 ea center end rake modules
- 1 ea propulsion module
- 1 ea combination beach and sea end module
- Existing system manual and provisioning data

C.7.2 System installed GFP

The Government will provide the following GFP in accordance with the government property clause for installation by the contractor into the system indicated prior to that system's delivery:

- SINCGARS radio installation kits (installed on the WT and CF)
- 10 kW TQG generator (installed on the RRDF and FC)

C.7.3 Contractor Access to Ft. Eustis, VA (FEVA)

The Government will provide access to existing causeway modules at FEVA in support of interoperability and interchangeability related design, development and testing efforts, if requested to do so by the contractor.

C.8 Total Package Fielding (TPF)

Total Package Fielding is the Army's standard fielding method used to provide Army units a new/product improved materiel system and all its related support materiel at one time. The contractor shall provide technically qualified individuals and services to support the handoff phase of TPF for each system at government specified dates and locations (anticipated to be Ft. Eustis, VA ).

C.8.1 Pre-fielding inventory

The contractor shall conduct a pre-fielding inventory of all major items, Basic Issue Items (BII), Special Tools and Test Equipment (STTE), On Board Spares (OBS), Initial Support Items (ISI), Repair Parts and Special Tools List (RPSTL), and technical manuals. Any known shortages which will not be available for handoff shall be annotated on a shortage list. This list shall contain a description of the item, nomenclature, NSN, part number, quantity, and date of availability. This list shall be attached to the joint inventory form.

C.8.2 Joint Inventory Form

The contractor and government representatives, along with the gaining unit representative, shall conduct a joint inventory of all components, major items, BII, OBS, ISIL, RPSTL, STTE, and technical manuals at the fielding site no later than thirty days prior to fielding. Team members shall prepare the appropriate deficiency reports (SF 368 Quality Deficiency Report, SF 364 Report of Discrepancies, SF 361 Discrepancy in Shipment Report, DA Form 2407 Maintenance Report) for any deficiencies found. The contractor shall prepare and sign the joint inventory form along with the government representative and gaining unit representative.

C.8.3 Deprocessing

The contractor shall perform on-site preparation of equipment prior to fielding or handoff including complete operator and maintainer preventive maintenance checks and services. Upon completion of deprocessing, the equipment shall be 100% fully mission capable.

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C.9 Parts support

As soon as practicable after contract award, the contractor and the Government (Defense Logistics Agency) will negotiate a separate contract agreement for parts support for a period of twenty-four (24) months after the first system delivery. The intent is for the contractor to insure timely parts availability for this period of time when spare and repair parts are ordered by the USG. Such orders will be placed on an as-needed basis driven by parts support demands from the field.

C.10 Maintenance planning (CDRL A005)

The contractor shall conduct/update maintenance analysis on the modular causeway systems, major assemblies, subassemblies, spare parts, and kits, and identify the tools to define optimal maintenance activities that fully support the maintenance concept for the modular causeway systems. This analysis shall be the basis for the update/revision of the Hardcopy/Electronic Technical Manuals (ETM), Preventive Maintenance Checks and Services (PMCS), Maintenance Allocation Chart (MAC), Lubrication Instructions and Repair Parts and Special Tools List (RPSTL). The contractor shall brief the maintenance analysis procedures and strategy at the initial Maintenance, Provisioning and Publications (MPP) review. Updates to any analysis procedures and strategy shall be briefed at each subsequent MPP.

C.10.1 Maintenance Allocation Chart (MAC) (CDRL A006)

The contractor shall update the existing Maintenance Allocation Chart (MAC) IAW MIL-STD-40051A-6A covering all maintenance tasks. The MAC is a living document that forms the basis for provisioning, manning and technical manual development and is, therefore, subject to change until its final approval concurrent with final approval of the technical manuals. The MAC assigns all authorized maintenance functions and repair operations to be performed by the lowest appropriate level and delineates the tools and test equipment required to perform the operations. The MAC shall be prepared in a top down breakdown sequence. The first functional group shall be 00, the end item. The MAC shall include all maintenance significant components, assemblies, subassemblies, and modules. Parts requiring a test procedure prior to replacement shall also be listed in the MAC.

C.11 Support equipment

Modular causeway systems shall be capable of being operated and maintained, to the maximum extent practicable, using common tools, support equipment, and test equipment normally organic to the user. Engines used on powered sections shall be outfitted with Built-In-Test-Equipment [BITE].

C.12 Supply support (provisioning program)

The provisioning program for the modular causeway systems requires the contractor to develop/update a database that shall provide the Government with data IAW Attachment A, Logistic Management Information (LMI) Data Product Delivery. The provisioning program creates the Provisioning Master Record (PMR) which is stored on the government database. It contains all data for the assemblies, subassemblies, spare parts and kits, to include Components of the End Item (COEI), Basic Issue Items (BII), Additional Authorized Items (AAL) and Special Tools, required to support the modular causeway systems.

C.12.1 Provisioning Contract Control Number (PCCN) and Provisioning Control Codes (PCCs)

The PCCN for the modular causeway systems is C31901. At the MPP review, the Government will furnish PCCs for each causeway system.

C.12.2 Provisioning schedule and reviews

The contractor shall provide a provisioning performance schedule at the Start of Work meeting IAW Attachment A. This schedule shall provide an estimate of the number of items to be provisioned and the number of provisioning meetings that will be required. (The maximum number of items reviewed at any 40-hour MPP review shall be 1,500 line items.)

C.12.3 Provisioning Parts List (PPL) (CDRL A007)

The contractor shall develop/update/submit and maintain provisioning data for the modular causeway systems using the C31901PMR. After the PMR for the modular causeway systems is established, the contractor shall add or change data to include the most recent production configurations, ECPs and parts information changes. The corrections shall be formatted in accordance with Attachment A, media format delivery for all LMI data products, or corrected by modem access to the Provisioning On-line System (POLS). The data shall be capable of being loaded into TACOM's PMR without any modification to the data.

The contractor shall correct CCSS/POLS rejects within 30 days after we notify the contractor of errors. Data submitted with more than a ten percent (10%) error rate will not be accepted and will be returned to the contractor for correction. The corrections shall be formatted IAW Attachment A.

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The contractor shall maintain and continuously update the data file with the Provisioning Technical Documentation (PTD) Reports (X40CXX6034R) which the Government will provide periodically. These reports shall contain part number changes, failure factor changes, Source/Maintenance/Recoverability code changes and additions and/or deletions throughout the contract.

**C.12.4 Provisioning of kits**

The contractor shall provision all kits specified in accordance with provisions in section C.12.

**C.12.5 Supplementary Provisioning Technical Documentation (SPTD)/Drawings (CDRL A008)**

The contractor shall have available at each MPP review one hard copy SPTD/drawing for each new item to be provisioned, identified on the PPL, for government review. These drawings shall include a parts list, detail and assembly drawings, interface control data, diagrams, performance characteristics and details of material for each assembly, subassembly and spare part on the modular causeway systems.

- The drawings shall be in Provisioning List Item Sequence Number (PLISN) sequence.
- After the Government approves each drawing as being suitable for NSN assignment, the drawings shall be submitted on a CD in Portable Document Files (.pdf) format, or some other software product format that we agree to, thirty (30) days after completion of each MPP review.
- Text on all drawings shall be in the English language.
- The contractor shall have all approved vendor Commercial and Government Entity (CAGE) code typed, stamped or written legibly with an authorized signature and date cited on all drawings. All provisioned items shall include at least two sources of supply one of which may be the contractor.
- Substitutes for drawings, such as commercial catalogs or catalog descriptions, sketches or photographs with brief descriptions or dimensions, material, mechanical, electrical or other descriptive characteristics do not apply. Use of such drawing substitutes is permitted only by exception, on a case by case basis, by the PCO.

**C.12.6 Kits & Crew Protection Kit Installation Instructions & Supplementary Provisioning Technical Documentation (SPTD) for Special Purpose Kits (SPK) (CDRL A009)**

The contractor shall provide a complete installation drawing identifying all kit components and parts, which describe the location of the components/parts on the modular causeway systems. Installation instructions shall be included.

**C.12.7 Tools and Test Equipment List (TTEL) (CDRL A010)**

The contractor shall prepare and deliver a TTEL listing those peculiar support items for the modular causeway systems that are not currently listed in the U.S. Army supply catalogs. A list of supply catalogs can be found in DA Pamphlet 25-30, Section 6, provided at the Start of Work meeting. The TTEL, with drawings, shall be identified at the first MPP review. After the Government approves the TTEL, the contractor shall deliver the data concurrently with the first submittal of the LMI data product. Updates shall be provided with each subsequent delivery of the LMI data products.

**C.12.8 Provisioning Parts List Index (PPLI) (CDRL A011)**

The contractor shall provide a PPLI containing a listing by manufacturer's reference numbers of all items listed in the LMI data products (see Attachment A), cross-referenced to each PLISN.

**C.12.9 System Support Package List (SSPL) (CDRL A012)**

The contractor shall prepare and provide an SSPL, which lists all system support requirements. The SSP list shall consist of, as a minimum, the following:

- Spare parts The SSPL shall identify a sufficient amount of repair parts to meet the requirements arising from predicted failures, scheduled maintenance, mandatory replacement items and items that are most likely to be consumed or broken during any disassembly or assembly process (such as seals and gaskets) as a result of anticipated wear out.
- On Board Spares (OBS) Components necessary for the vessel to operate and for the crew to perform quick repair underway, or repairs not requiring external support to tow or otherwise support the powered section, deck mounted equipment and the modular causeway systems.
- Authorized Stockage List (ASL) hardware System specific Class IX repair parts authorized to be held at the DS/GS level to support an additional thirty (30) days of operations, not to be stored onboard the system, but in close proximity to the systems

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- operational area, e.g., support maintenance (DS/GS) parts storage area.
- Mission Support Packages (push packages) Class IX repair parts and other components required to support two (2) ninety (90) day back-to-back missions preserved and transported with the system onboard the pre-positioned vessels.
  - Common and Special Tools, Test Measurement and Diagnostic Equipment (TMDE) All common and special tools, tool kits, equipment and TMDE identified in the Army supply catalogs required in support of the modular causeway systems. Any tool or TMDE required to perform maintenance and any diagnostic maintenance procedures, to include any vendor or manufacturer software programs and/or hardware, that are not identified in the Army supply catalogs shall be identified on the SSP list. All tools & TMDE not listed in the Army supply catalogs shall be identified as special tools.
  - Equipment Publications The most recent version of each equipment publication shall be included in the SSPL. When changes and updates are made to any publication during testing or Technical Manual verification, the contractor shall identify them to TACOM, AMSTA-LC-CJA.
  - Basic Issue Items (BII) and Components of the End Item (COEI) BII, as required by the specification, and BII/COEI, as required by the contractor's design, shall be included on the SSPL.
  - Expendables Supplies Expendable supplies such as petroleum, oils and lubricants shall be identified on the SSPL .
  - Support Equipment Equipment existing in the Army's inventory to support the modular causeway systems shall be included on the SSP list.

C.12.10 Design Change Notice (DCN) (A013)

The contractor shall submit a DCN for those design or part number changes which modify, add, delete or supersede any of the operating, maintenance or repair parts information that the contractor provided previously under this contract.

C.12.11 Contractor on-line access

The contractor may access the POLS to make Provisioning Suspense File corrections as an alternative to receiving validation reject reports from the Government, then making the corrections on a subsequent submittal. The Government, if requested, will provide access free of charge by modem to the POLS. However, any hardware or software required for accessing the POLS shall be at contractor expense. Additional access may be provided for ease of processing LMI data.

C.13 Publications for RRDF, WT and FC (CDRLs A014, A029-A033)

The contractor shall develop the below listed equipment publications per MIL-STD-40051A for the modular causeway systems. Publications for the modular causeway systems are broken down into four (4) volumes and (three (3) sub-volumes on the Causeway Ferry and Warping Tug) as follows:

- Causeway Ferry (CF) - Volume 1
  - Engine (CF) Volume 1-1
  - Marine Gear (CF) Volume 1-2
  - Transfer Case (CF) Volume 1-3
- Roll-On/Roll-Off Discharge Facility (RRDF) - Volume 2
- Modular Warping Tug (WT) - Volume 3
  - Engine (WT) Volume 3-1
  - Marine Gear (WT) Volume 3-2
  - Transfer Case (WT) Volume 3-3
- Floating Causeway (FC) - Volume 4

C.13.1 Publications for RRDF, WT, and FC

For the RRDF, WT and FC, the contractor shall develop the following:

- Operator's Manual, TM55 1945-205-10
- Unit/DS/GS Maintenance Manual, TM55 1945-205-24
- Commercial Off the Shelf Manual, TM55 1945-XXX-XX
- Repair Parts and Special Tools List, TM55 1945-205-24P
- Lubrication Order, LO55 1945-205-12
- Hand Receipt, TM55 1945-205-10

C.13.2 Publications for CF

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The contractor shall provide CF manuals in accordance with MIL-STD-40051A and incorporate new procedures and material changes. These TM's are:

Operator's Manual, TM55 1945-205-10  
Unit/DS/GS Maintenance Manual, TM55 1945-205-24  
Commercial Off the Shelf Manual, TM55 1945-XXX-XX  
Repair Parts and Special Tools List, TM55 1945-205-24P  
Lubrication Order, LO55 1945-205-12  
Hand Receipt, TM55 1945-205-10

C.13.3 Electronic Technical Manual (ETM)

The contractor shall also produce an ETM file of each publication described above. ETM files are .pdf format files. These files contain bookmarks and links as follows: Bookmarks shall be established for the table of contents page, the first page of alphabetical indexing and the first page of each work package, the first page of each chapter, the first page of each section and for each reference within the same manual (files). No linking is required beyond the bookmarks.

C.13.4 Delivery

The following shall be delivered, postage prepaid, to TACOM, AMSTA-LC-CJA, Warren, MI 48397-5000:

- Camera-ready (600DPI laser print or equivalent) copy of each complete publication, with running sheets and folio markings, sized for 1 to 1 reproduction (no enlargement or reduction required by the printer).
- Complete SGML-tagged data for each publication and graphic file in the format specified in MIL-STD-40051.
- Word processing file of each publication (MS Word or equivalent).
- .pdf of each publication.

All digital files are to be delivered on ISO 9660 CD-ROM.

C.13.4.1 The following is a schedule of events leading up to the final submission of TM's and provisioning data.

1. Maintenance Allocation Charts (MAC) - due 360 days Before First Production Delivery (DBFPD).
2. Initial submissions of all TMs and provisioning data - due 285 DBFPD.
3. Verification of TMs and Provisioning Conference - 255 DBFPD.
4. Final submissions of TMs and provisioning data - 180 DBFPD.

The Contractor will be required to deliver a MAC 60 days after contract award and final submission of TMs will be 240 days after award of contract.

C.13.5 Validation

The contractor shall validate the accuracy and usability of all publication deliverables. The contractor shall have and use documented Quality Assurance (QA) processes and inspections in accordance with Section E.9. The Government has the right to review validation processes. The Government has the right to verify all publication deliverables. Government reviews and verification may be done through statistical sampling and a mix of desktop review and actual performance but could include actual performance of all procedures and review of all pages, if deemed necessary by the Government. The Government does not intend to review and verify every page at every review but relies on complete and careful editing and review by the contractor. If there are indications that the contractor has performed incomplete or inadequate QA reviews, the Government may elect to perform additional reviews and return products for rework.

C.13.6 Reviews

Publication work shall be reviewed at an MPP review when 30% of the manual effort is complete and again when 70% of the manual effort is complete.

C.13.7 Verification/validation

The contractor shall support the Government's TM verification (See paragraph C.4.3). All comments, changes and corrections resulting from the verification will be incorporated in to the final draft submission.

C.14 Training and training support

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The contractor shall provide contractor ("ktr") site facilities, instruction, equipment, instructor(s), tools (special and common), and technical training courses as required herein for training on the following systems: RRDF, CF, FC, WT.

Training issues shall be discussed at IPRs for the purpose of tracking and reviewing the status of contractor developed training materials to include actions taken resulting from student comments.

The contractor shall conduct all training courses. The contractor shall develop two training courses for each system. One course shall be used to train operation/operators and the second course shall be used to train unit and Direct Support (DS) maintenance personnel on each system. The three types of training are Tester Training (TT), Instructor and Key Personnel (I&KPT) Training, and New Equipment Training (NET). All training courses shall be stand-alone courses and structured to provide students with at least 70% hands-on training. See Attachments B-F.

The first increment of training for the CF system shall be Tester Training in support of Operational Demonstration (OP DEMO). Any comments received from attendees of TT courses and OP DEMO will be reviewed by the TACOM New Equipment Training (NET) manager and forwarded to the contractor to be incorporated into the courseware to yield a revised product. These revised products shall be used to conduct Instructor & Key Personnel Training for the CF each system.

The next increment of training for each system shall be for Instructor and Key Personnel Training. Any comments received from the attendees of I&KPT courses will be reviewed by the TACOM NET manager and forwarded to the contractor to be incorporated into the courseware to yield a revised final product. These revised final products shall be used to conduct NET for each system. These NET products shall be used to provide training to the First Unit Equipped (FUE) and all additional units requiring NET.

The contractor shall provide the following classes:

<u>System</u>	<u># of Classes</u>	<u>Type of Course</u>	<u>Event</u>	<u>Location</u>
RRDF	one	Operator/operation	I&KPT	Ktr site
RRDF	one	Unit/DS maintenance	I&KPT	Ktr site
RRDF	two	Operator/operation	NET-1	Ft. Eustis
			NET-1	Ft. Story
RRDF	two	Unit/DS maintenance	NET-1	Ft. Eustis
			NET-1	Ft. Story
CF	one	Operator/operation	TT	Ktr Site
CF	one	Unit/DS Maintenance	TT	Ktr site
CF	one	Operator/Operation	I&KPT	Ktr site
CF	one	Unit/DS maintenance	I&KPT	Ktr site
CF	two	Operator/operation	NET-1	Ft. Eustis
			NET-1	Ft. Story
CF	two	Unit/DS maintenance	NET-1	Ft. Eustis
			NET-1	Ft. Story
FC	one	Operator/operation	I&KPT	Ktr site
FC	one	Unit/DS maintenance	I&KPT	Ktr site
FC	two	Operator/operation	NET-1	Ft. Eustis
			NET-1	Ft. Story
FC	two	Unit/DS maintenance	NET-1	Ft. Eustis
			NET-1	Ft. Story
WT	one	Operator/operation	I&KPT	Ktr site
WT	one	Unit/DS maintenance	I&KPT	Ktr site
WT	two	Operator/operation	NET-1	Ft. Eustis
			NET-1	Ft. Story
WT	two	Unit/DS maintenance	NET-1	Ft. Eustis
			NET-1	Ft. Story

**C.14.1.1 Training system implementation plan**

The contractor shall develop and maintain a training system implementation plan that includes a Plan of Action and Milestones (POA&M) for the training program. The POA&M shall include proposed delivery of the draft and final training materials. The training system implementation plan shall be available for government review and comment at each IPR. The contractor shall select instructional media to implement or augment chosen instructional strategies.

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C. 14.2 Training materials format/media/deliveries (CDRLs A015-A022)

The contractor shall provide stand-alone training materials for the courses. The training package shall contain the instructor lesson guide, student lesson guide, and media package for each course of instruction. The contractor shall provide the material in electronic digital format. The contractor shall prepare and deliver three draft training packages per course for review and approval by the government ninety (90) days prior to start of TT, ninety (90) days prior to start of I&KPT, and ninety (90) days prior to First Unit Equipped (FUE) for NET. The government will review and return the training packages within thirty (30) days of receipt. Final approved training packages shall be delivered to the government thirty (30) days prior to TT, I&KPT and NET. Training material may be supplemented by, but not limited to, contractor and commercial handbooks, pamphlets, operational manuals, maintenance manuals, logic diagrams, schematics, equipment description, functional data, visual aids, and other documents suitable for use in development/conduct of training programs. The contractor shall provide two (2) each desk top models of each system. Models shall be 24 to 36 inches long and shall be modular in design to resemble actual systems.

Visual aids shall be used to enhance training and may consist of, but not limited to, videos, slides, transparencies, wall charts, schematics, illustrations, pictures, drawings, and components.

The contractor shall prepare and deliver separate orientation videos to address the new or significantly changed systems and enhanced performance potential of the vessel/system. The video shall be in VHS format, and no more than thirty (30) minutes in length.

The materials (other than hard copy) shall be delivered in a digital format, IBM, compatible, CD ROM or three and one-half inch disk, prepared with commercial word processing, graphics, and desktop publishing format.

C.14.3 Equipment/pubs required to support training (CDRL A023)

The contractor shall identify components, parts, expendable supplies, tool sets/kits, individual tools (special and common), and TMDE required to support TT, I&KPT, and NET. The contractor shall provide each student a hard copy of the appropriate TM for the course they are attending. The contractor shall be responsible for shipping any training aids and materials to support NET to the designated government site.

The contractor shall provide to the government, in contractor's format, a list containing the noun/nomenclature, NSN/PN, manufacturer, quantity, and item cost of equipment required to support training, ninety (90) days prior to start of TT, I&KPT and NET. The government will review and return the list to the contractor within thirty (30) days. This list shall form the basis for development of any New Equipment Training Support Package (NETSP) required for conduct of training.

C.14.4 Instructor information

When requested by the Government, the contractor shall make available to the government all required personal information related to the instructors, including documentary evidence such as birth certificates and other data requested by the installation or area in which services are to be performed. The contractor shall submit a listing of names and qualifications of instructors to the NET manager or his representative for review and comment.

C.14.5 Tester Training (TT)

The contractor shall be responsible for providing TT to government personnel at the contractor's facility on the CF system. TT training shall be completed no more than seven (7) days prior to OP DEMO. Each student in attendance shall receive a hard copy of the training materials. Each class shall require two (2) instructors per operator class and two (2) instructors per unit/DS maintenance class. The operation/operator courses shall not exceed one hundred twenty (120) hours with a maximum of sixteen (16) students per class. The unit/DS maintenance courses shall not exceed eighty (80) hours with a maximum of twelve (12) students per class. One operation/operator class and one unit/DS maintenance class is required to support OP DEMO for the CF system.

C.14.6 Instructor and Key Personnel Training (I&KPT)

The contractor shall be responsible for providing I&KPT to government personnel at the contractor's facility on each system. I&KPT training shall be completed no more than one hundred and twenty (120) days prior to FUE. Each student in attendance shall receive a hard copy of the training materials. Each class shall require two (2) instructors per operator class and two (2) instructors per unit/DS maintenance class. The operation/operator courses shall not exceed one hundred twenty (120) hours of instruction with a maximum of sixteen (16) students per class. The unit/DS maintenance courses shall not exceed eighty (80) hours of instruction with a maximum of twelve (12) students per class.

C.14.7 New Equipment Training (NET)

The contractor shall provide NET in support of all system fieldings. All courses shall be conducted at a designated government facility. Operation/operator maintenance classes shall be limited to a maximum of 16 students per class at no more than one

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hundred and twenty (120) hours per class. Each student shall receive a hard copy of all related training materials. Unit/DS maintenance classes shall be limited to a maximum of twelve (12) students per class with a maximum of eighty (80) hours per class. Each student shall receive a hard copy of all related training materials. Each class shall require two (2) instructors per operator class and two (2) instructors per unit/DS maintenance class.

C.14.8 Course completion documents and reports (CDRL A024)

The government will provide blank student rosters and student critique sheets. Upon completion of each class, the contractor shall provide the government a completed student roster containing the student's full name, grade/rank, unit/location, SSN, and instructor's names. The contractor shall submit a copy of the government provided course critique sheets completed by each student. The contractor shall provide each student with a course completion certificate that states the course name, number of hours, student's name, SSN and course completion date signed by the primary instructor.

C.15 Packaging requirements

The contractor shall provide packaging data for items provisioned for the modular causeway systems and not resident in Army packaging data files. The contractor shall provide the facilities, material, and access to parts needed for packaging data development. Packaging data development is required only for those provisioned items assigned Uniform Source Maintenance and Recoverability (SMR) codes PA, PB, PC, PE, PG, PH and KF. Packaging data development is not required for common hardware type items assigned a Contractor and Government Entity Code (CAGE) of: 1T416, 21450, 80204, 96906, 10060, 24617, 80205, 99237, 80244, 81343, 81346, 81348, 81349, 81352, or 88044 .

C.15.1 Item classification

The contractor shall classify items requiring packaging development IAW MIL-STD-2073-1D Appendix A.

C.15.1.1 Common group items

These items will not require NEW packaging coded data development. (Common group items packaging coded data has been predetermined by DOD and must be used.)

C.15.1.2 Selective group items

These are items that REQUIRE packaging coded data development, but do not require a drawing, sketch, illustration, narrative type instructions, and do not exceed 40 pounds, do not have any one dimension which exceeds 40 inches, or do not have a length and girth of over 84 inches. Packaging data for these items can be appropriately defined by Standard Practice Coding IAW MIL-STD-2073-1D. (Selective group items shall not be subjected to design validation testing.)

C.15.1.3 Special group items

The following items shall be considered special group terms:

- Items requiring narrative instructions or figures to describe packaging requirements;
- Kits, sets, and items consisting of separate parts; (Sets of items packed in ISO containers may be considered Kits IAW MIL-STD-2073-1D, APPENDIX D.)
- Items that require disassembly for packaging;
- Items requiring special handling or condemnation procedures;
- Items considered hazardous for transport;
- Items considered to have a shelf-life;
- Items excluded from the selective group.

C.15.2 Packaging impact

The contractor shall assess engineering and logistic changes for packaging design/data impact. The contractor shall provide packaging impact statements with Engineering Change Proposals (ECPs). The contractor shall provide revisions and additions to the packaging information when packaging is impacted.

C.15.3 Special Packaging Instructions (SPI) (CDRL A025)



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For each item classified as special, the contractor shall prepare a SPI in an electronic format that can be viewed, changed or commented upon, and approval marked using a Microsoft Windows application, e.g. Microsoft Word 6.0 or 7.0. The contractor shall perform packaging design validation testing in accordance with MIL-STD-2073-1D paragraph 5.6.

C.15.4 Packaging related LMI data products (CDRL A026)

The contractor shall submit LMI data products in electronic format (ASCII). The data provided shall be for every item requiring packaging data. The required packaging related LMI data products are as detailed below from Appendix B of MIL-PRF-49506:

Data Products Dictionary #	Data title
0680	National Stock Number (NSN)
0220	Packaging Indicator Code (PIC)
1440	Type Storage Code (TSC)
1460	Pack Level Reference Indicator
0140	Packaging Data Preparer
1190	Shelf Life Code
1200	Shelf Life Action Code
1050	Packaging Reference
0480	Item name
1550	Item weight
1530	Item length
1530	Item width
1530	Item depth
0750	Packaging Category Code
1250	Special Marking Codes
0980	Quantity per unit pack
0450	Quantity per intermediate pack
1050	Item drawing number
0140	CAGE
0660	Preservation method code
0130	Cleaning Method code
0810	Preservative material code
1590	Wrap material code
0200	Cushioning material code
0210	Cushioning thickness code
1450	Unit container code
0440	Intermediate container code
1460	Unit Container Level Code
0760	Packing requirements code
1550	Unit pack weight
1530	Unit pack length
1530	Unit pack width
1530	Unit pack depth
1520	Unit pack cube
1290	In-The-Clear Instructions
0360	Hazardous Code
1270	SPI Date
1280	SPI Revision
1220	Source, Maintenance and Recoverability (SMR) Code
1420	Type of Change Code (transaction type)
1470	Unit of Issue (UI)
1510	Unit of Measure (UM)

C.15.5 Documentation

The contractor shall provide documentation with data submittal, as necessary, to permit the government reviewer to determine the adequacy of the prepared packaging analysis and packaging related LMI data. This includes item drawings and copies of Material Safety Data Sheets. Additionally, performance test reports and photographic records of packaged item before and after testing shall be delivered for every SPI.

C.15.6 Shipment and Storage (S&S) instructions (CDRL A027)

The contractor shall develop preservation and depreservation (return to operating condition) instructions and updates to the S&S

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Instructions for all end items of the modular causeway systems. The contractor shall include processing instructions for shipment. The contractor shall consider overland and marine vessel transport (on deck and below deck). The S&S instructions may be detailed in a Special Packaging Instruction or Technical Manual (preferred). The contractor shall develop a preservation/packing process for long term storage:

Military/level A protection for thirty-six (36) months minimum in a salt vapor (on deck) environment;

Military/level B protection for thirty-six (36) months maximum in a humidity controlled (below deck) environment.

Exercising requirements shall also be included for each of the long term storage environments.

**C.15.6.1 Engines/batteries**

All mechanical equipment containing internal combustion engines or wet batteries are subject to requirements of Code of Federal Regulation Title 49, for truck and rail transport, International Maritime Dangerous Goods Code, for vessel transport, and AFJMAN 24-204, for military air. The contractor shall include disassembly procedures to meet requirements for the applicable mode. Overseas shipments require some disassembly to minimize shipped tonnage costs. Instructions shall reflect all special requirements.

**C.15.6.2 Support hardware**

The contractor shall include S&S instructions for ISO containerized Components Of the End Item (COEI), Basic Issue Items (BII), Interim Support Items List (ISIL) items, Prescribed Load List (PLL)/Authorized Stockage List (ASL) items, Onboard Spares List (OBSL) items, and ninety (90) day Mission Support Packages.

The contractor shall include figures/drawings showing the stowage location and security provisions. The stowage locations shall deter pilferage and shall not interfere with lifting, tie down or other transportation handling requirements.

**C.15.6.3 Design change**

The contractor shall provide revisions to the S&S instructions for each design change affecting shipping configuration, weight, or transportability. When directed by the Government, the contractor shall update S&S instructions to support improvements in processing methodology for the modular causeway systems.

**C.15.6.4 Validation**

The contractor shall validate S&S instructions. Validation for S&S instructions shall verify the adequacy of the preservation, packaging, packing and stowage; and the exercising requirements for powered modules and winches in long term storage. Government representatives may verify and witness contractor's validation.

**C.16 Manpower and Personnel Integration (MANPRINT)**

MANPRINT considerations shall be addressed and incorporated throughout the design and fabrication process of the modular causeway systems to maximize soldier-machine interface and shall be coordinated with the contractor's logistics and system engineering activities.

**C.16.1 Human Factors Engineering (HFE)**

The contractor shall consider human factors in design of the Modular Causeway Systems (MCS) in accordance with paragraph 3.3.15.3 of the ATPD 2280 to facilitate rapid and easy deployment by the crew under all required operational conditions within prescribed deployment times. The MCS shall be capable of being assembled by the 5th percentile female through the 95th percentile male soldiers while wearing arctic and mission-oriented protective posture (MOPP) ensemble.

**C.16.2 Manpower**

Modular causeway systems shall not require additional manpower to current causeway companies authorized Table of Organization and Equipment for maintenance, recovery and deployment under all operational conditions. Maintenance, deployment and recovery time must be performed within the prescribed performance time standard.

**C.16.3 Personnel capabilities**

All tasks shall be designed so they may be performed by soldiers with skill level and strength level as defined by Military Occupational Specialty (MOS) 88L/88K. Modular causeway systems shall be easy to maintain, deploy and recover by the operator crew. No new Military Occupational Specialty (MOS) or Additional Skill Identifier (ASI) shall be required for the modular causeway systems or its ancillary equipment.

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C.16.4 Soldier survivability

Modular causeway systems shall include features of soldier survivability by minimizing system detectability, probability of being attacked or detected, probability of damage if attacked, and soldier fatigue and injury.

C.16.5 System safety and health hazards

The contractor shall follow good safety engineering practices in establishing any modular causeway systems design and operational procedures to include modifications. MIL-STD-882D may be used as a guide in determining whether safety engineering objectives are met. As a minimum, the contractor shall do the following:

Identify hazards associated with the system by conducting safety analyses and hazard evaluations. Analyses shall include both operational and maintenance aspects of the modular causeway systems.

Eliminate or reduce significant hazards by appropriate design or materiel selection. If hazards to personnel are not avoidable, take steps to control or minimize those hazards.

C. 16.5.1 Safety Assessment Report (SAR) (CDRL A028)

As a result of system safety analyses, hazard evaluations, and any contractor independent testing, the contractor shall perform and document a safety assessment. The safety assessment shall identify all safety features of the hardware, system design and inherent hazards. The assessment shall also establish special procedures and/or precautions to be observed by government test agencies and system users. Based on the safety assessment, the contractor shall prepare a Safety Assessment Report in accordance with DI-SAFT-80102B. As an addendum of the Safety Assessment Report, the contractor shall identify and incorporate health hazards associated with the system. In preparing the health hazard portion of the SAR, the contractor shall provide a description and discussion of each potential or actual health hazard issue of concern for each system or component. A health hazard is an existing or likely condition, inherent to the operation, maintenance, transport or use of materiel, that can cause death, injury, acute or chronic illness, disability, or reduced job performance of personnel by exposure to physiological stresses. Each hazard shall include the classification of hazard severity and probability of occurrence. The contractor shall include when the hazards may be expected to occur, whether under normal, unusual operating or maintenance conditions. The following are examples of some areas of concern that may contain safety and health hazards. This is not an all-inclusive list:

- Stability issues
- Breakdown from ISOPAK configuration
- Fire prevention issues
- Toxic gases, (e.g., engine exhaust)
- Confined space areas
- Noise levels
- Lifting devices
- Electrical issues

\*\*\* END OF NARRATIVE C 001 \*\*\*

<p align="center"><b>CONTINUATION SHEET</b></p>	<p align="center"><b>Reference No. of Document Being Continued</b></p> <p> <b>PIIN/SIIN</b> DAAE07-00-R-T019      <b>MOD/AMD</b> 0007 </p>	<p align="right"><b>Page 20 of 32</b></p>
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**Name of Offeror or Contractor:**

SECTION E - INSPECTION AND ACCEPTANCE

E.9 Quality System Requirements

E.9.1 Higher-level Contract Requirements: U.S. Army Tank automotive and Armaments Command (TACOM) Quality System Requirement: New Design, Design Control, Complex or Critical Item:

E.9.2 As the Contractor, you shall implement and maintain a quality system that ensures the functional and physical conformity of all products or services you furnish under this contract. Your quality system shall achieve 1) defect prevention and 2) process control, providing adequate quality controls throughout all areas of contract performance.

E.9.3 Your quality system may be based on 1) International Quality Standards such as International Standards Organization (ISO) 9001, 2) Military 3) Commercial or 4) National Quality Standards. (Note: Systems such as ISO-9002 or comparable systems are unacceptable for this procurement.) You represent that your performance under this contract will be in accordance with your quality system, which is in compliance with:

- ☐ ISO 9001
- ☐ Commercial Quality Standard QS 9000
- ☐ American National Standards Institute (ANSI) and American Society of Quality Control (ASQC) ANSI/ASQ Q 9001 series
- ☐ Other,

specifically \_\_\_\_\_

NOTE: If you check the "OTHER" block above, you must submit a description of your quality system as part of your response to the solicitation (See Section L, Instructions, Conditions and Notices to Offerors). Upon Contract award, the quality system description becomes part of the Contract.

E.9.4 Certification of compliance for the quality system you identify above, by an independent standards organization or auditor, is not required under this contract. However, you may attach a copy of such certification with your offer in response to the solicitation, as proof of system compliance. At any point during contract performance, the government has the right to review the contractor's system to assess its effectiveness.

E.10 Government Furnished Property (GFP)

The contractor shall inspect all GFP to insure receipt of the property is in the correct quantities and functional. Receipt inspection and records of examinations and test performed by the contractor shall be kept complete and readily available to the government during contract performance. Upon discovery of defective GFP, the contractor shall document the results of inspections, notify the Government Quality Assurance Representative (QAR) to verify defective GFP and shall furnish a Quality Deficiency Report (QDR), SF368 to the ACO and PCO describing the discrepancy, quantity of GFP affected and recommendation of disposition. A Supply Deficiency Report (SDR), also known as Report of Shipping and Packaging Discrepancies (ROD), will be completed only when the discrepancy is transportation related.

Name of Offeror or Contractor:

SECTION I - CONTRACT CLAUSES

Status	Regulatory Cite	Title	Date
I-1 ADDED	52.227-3	PATENT INDEMNITY	APR/1984
I-2 ADDED	52.227-11	PATENT RIGHTS--RETENTION BY THE CONTRACTOR (SHORT FORM)	JUN/1997
I-3 ADDED	52.227-12	PATENT RIGHTS--RETENTION BY THE CONTRACTOR (LONG FORM) (ALT. II, dated June 1989)	JAN/1997
I-4 ADDED	52.248-1	VALUE ENGINEERING	FEB/2000
I-5 ADDED	252.227-7034	PATENTS--SUBCONTRACTS	APR/1984

Name of Offeror or Contractor:

SECTION J - LIST OF ATTACHMENTS

LIST OF ADDENDA	TITLE	DATE	# OF PAGES
EXHIBIT A	CONTRACT DATA REQUIREMENTS (CDRLs)		
EXHIBIT B	DATA ITEM DESCRIPTIONS (DIDs)		
EXHIBIT C	PAST PERFORMANCE QUESTIONNAIRE		
ATTACHMENT 001	PURCHASE DESCRIPTION ATPD 2280	27 OCT 00	58
ATTACHMENT 002	COMMERCIAL OFF-THE-SHELF (COTS)	SEP 00	3
ATTACHMENT 003	UNIT DIRECT SUPPORT & GENERAL SUPPORT	SEP 00	6
ATTACHMENT 004	OPERATOR'S MANUAL	SEP 00	7
ATTACHMENT 005	TECHNICAL MANUAL	SEP 00	1

\*\*\* END OF NARRATIVE J 001 \*\*\*

Name of Offeror or Contractor:

SECTION K - REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS

Status	Regulatory Cite	Title	Date
K-1 DELETED	52.215-4	TYPE OF BUSINESS ORGANIZATION	OCT/1997
K-2 DELETED	52.211-4034 (TACOM)	IDENTIFICATION OF OFFERED PART NUMBER	NOV/1982

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**Name of Offeror or Contractor:**

SECTION L - INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS

<u>Status</u>	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
L-1 ADDED	52.215-1	INSTRUCTIONS TO OFFERORS--COMPETITIVE ACQUISITIONS (ALTERNATE I (OCT 1997) AND ALTERNATE II (OCT 1997))	FEB/2000

L.1 PROPOSAL INSTRUCTIONS AND CONTENT

L.1.1 The proposal shall be submitted electronically in the format and quantities set forth below. All proposals shall be in English (American Standard) language. All proposals shall be in US dollars. In preparing proposals, the offeror shall cross-reference his response within each section of the proposal to the pertinent evaluation criteria in Section M. Where a proposal would become duplicative of a response already given, it shall reference and not restate the same information. Each section of the proposal shall be separable to facilitate review by the Government. Your proposal shall include all information specified and address all requirements outlined in Section L.

L.1.2 The offeror's proposal/offer as required by this section shall be evaluated as set forth in Section M of this solicitation.

L.1.3 The proposal shall be submitted in five separate volumes/electronic folders. The volumes/electronic proposals shall be clearly labeled as:

Technical Volume  
Price Volume  
Logistics Volume (reference L.4)  
Past Performance/Small Business Utilization Volume  
Representations and Certifications/ Proposal Terms and Conditions Volume

Two paper copies of each separate volume shall be sent to the Contract Specialist identified in Block 10 of the SF 33, clearly labeled and in a separate binder. The paper copies shall be identical to the electronic proposal submission. Each page shall identify the appropriate volume/folder and be numbered. An index shall be provided with each section of each volume with reference to page numbers. Separate drawings may be submitted on videotape or in other file formats or media, however, specific formats and media of supporting data should be checked with the Government prior to submission to insure compatibility.

L.2 AREA I -TECHNICAL

The offeror shall include a statement in the technical volume which indicates that the offeror's proposal is in compliance with the modular causeway systems' Purchase Description (PD), ATPD 2280. The technical volume shall be subdivided so that it addresses the respective elements set forth below. The two elements in this area have different relative weights as described in Section M. The offeror may submit pertinent test data, modeling/simulation data, top drawings, sketches, parts lists, specifications, commercial literature or brochures, and design methodology as technical information to be used to evaluate the technical area elements as set forth in Section M. The technical data, documentation and supporting rationale shall be complete and specific based on the evaluation criteria set forth in Section M which the Government will use to evaluate this information. Discuss how you would minimize risk associated with performing each element. At a minimum, you shall include the following in your technical volume:

L.2.1 Element 1 - Design and Integration: Address the following considerations in your discussion of modular causeway systems design and integration. Provide information that supports your approach to the engineering design and integration of the modular causeway systems. Describe the basis for your design approach and component selection decisions.

L.2.1.1 First, describe how you intend to meet the PD technical requirements as follows:

- a) CF/WT speed (PD para 3.3.1.1),
- b) CF/WT noise (PD para 3.3.5.1.1),
- c) CF/WT maneuverability (PD para 3.3.1.2),
- d) CF Beach End (PD paras 3.3.1.3 and 3.3.6.4),
- e) interchangeability and interoperability (PD paras 3.3.11, 3.3.12, and 3.3.13),
- f) transportability (PD para 3.3.10).

State whether this system is a first time prototype design and integration engineering effort. Alternatively, if you plan on using an existing causeway design, be specific in how this design would be modified to meet the PD technical requirements cited above.

L.2.1.2 Second, describe how you intend to insure that all systems and components will be interoperable with existing vessels, crafts and equipment used in LOTS/JLOTS operations through sea state 2 from fully loaded to fully unloaded conditions.

L.2.2 Element 2 - Production Capability: Describe your production methods and systems that you intend to apply in the performance of the causeway systems' contract. This should be broken down into the following three sections: Manufacturing Plan,



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Facilities, and Equipment that will be used to meet the production requirements identified in the RFP.

**L.2.2.1 Manufacturing Plan:** Describe your proposed production facility layout in detail. This should identify the progressive physical flow of hardware within the Offeror's proposed production site. The layout should detail the flow process from the point of material receipt and storage, through component assembly, causeway assembly, paint, test, prep and ship. The layout should detail your critical path for producing causeway systems. Describe any in-house manufacturing that is planned to support causeway system production. Identify the location of all required production equipment and ancillary support equipment (forklifts, cranes, etc.) which are required to support the proposed production approach. If a Manufacturing Requirements Planning (MRP) or Manufacturing Resource Planning (MRPII) system or software program will be used during production, please provide a detailed description of how it operates, its expected effect(s) on production, and how the use of that system or software program will ensure timely delivery in accordance with the master schedule for the causeway systems. It should also address production capacity data for your proposed production site.

**L.2.2.2 Facilities:** Describe the facility/facilities proposed for use in the causeway system production. Provide the dimensional size (sq. ft.) of all structures, storage areas, lots, test facilities and open areas at the facility/facilities. Identify all public utilities required and currently available at each location and their proximity of the site to highway, rail or seaway capabilities. Provide a milestone schedule for any new facility construction and identify the size and capacity for the new facility and any impact that this construction may have on production schedules. If other facility/facilities are required to produce causeway systems, identify those facilities and how they will be utilized.

**L.2.2.3 Equipment:** Identify and milestone the availability of all key equipment items required to accomplish production. Categorize the equipment in accordance with proposed use, identifying the source for the equipment and the proposed availability dates. Address any problems that availability of equipment may have on production and how you will remedy that problem.

**L.3 AREA II - PRICE**

**L.3.1 Unit Prices for CLIN's 0011 through 7000,** shall be provided in Section B (which is part of the Terms and Conditions Volume). The Price Volume shall include non-certified cost information to support the proposed prices for hardware with the options, First Article Testing, Technical Manuals and Training. The Price Volume shall also include a completed clause H.24, Discount Ordering Provision, whether you choose to offer discounts or not. If an offeror believes it may be eligible for waiver of only some portion of the first article test requirements under the MCS program, it should so indicate with its offer (in the Price Volume), and include therein not only the full amount for first article testing, but an amount for that portion of the test program for which it requests a waiver. The Government reserves the right to request additional cost data to evaluate offeror's proposals. The Price Volume also requires information on non-recurring cost, and CDRLs. The most important aspects of the Price Proposal include the following:

- a) The proposed prices must reflect the use of prudent judgment and sound business practice.
- b) The proposed prices and the Price Volume must be consistent with the offeror's Technical and Logistics Volumes. The consistency between the offeror's Price, Technical and Logistics Volumes reflects on the offeror's understanding of the work required and on the offeror's ability to perform the effort required by the scope of work for the amount proposed. Any significant inconsistencies, if unexplained, raise a fundamental question as to the offeror's inherent understanding of the work required and as to their ability to perform the contract.

In Section B, the Offerors shall submit proposed prices for all basic quantities and options, including First Article Testing, Technical Manuals and Training set forth in Section B.

**L.3.2 Proposal Structure.** The offeror's name, solicitation number, and the date of the submission shall appear on each page of the electronic Price Volume.

**L.3.3 Price Information.** For each unique proposed unit price for the RRDF, CF, FC, and WT, the price proposal shall include a top level spreadsheet organized by direct cost element (i.e. Material, Subcontracts, Direct Labor, Other Direct Costs, etc.) showing per-unit costs. The Offeror shall also provide the following information in support of each top-level spreadsheet.

**L.3.3.1 Material.** Provide a narrative that explains the method used to develop the base material cost, including information about the extent to which the material cost is based on vendor quote, purchase order history, estimates, etc. Additionally, the Offeror shall provide the following information in support of each top-level spreadsheet:

a) **High Dollar-Value Material:** For the fifteen material items with the highest extended base cost (unit cost multiplied by quantity) provide the following information:

- (1) Item Name/Description/Part Number/Vendor, if applicable.
- (2) Base Unit Cost (without indirect cost)
- (3) Quantity per unit
- (4) Extended Base Cost

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- (5) Basis for cost (engineering estimate, quote, purchase history, etc.)  
(6) Indicate whether component is sole-source, competitive, or commercial

b) All Other Material: State the total amount of base material dollars not included above.

L.3.3.2 Subcontracts. If there are major subcontractors (those whose total price is expected to be greater than \$5,000,000 for this contract as a whole) for purchased material or services, the offeror shall provide cost information from the subcontractor equivalent to that required of the offeror. Any such subcontractor cost information must be segregated by hardware item, same as required of the offeror's cost breakdowns. The offeror shall also submit its evaluation of the subcontractor's submission, and rationale for determining that the subcontract price is reasonable and realistic. If the subcontractor is unwilling to provide such information to the offeror, the data may be submitted directly to the PCO. The same kind of information shall be provided for inter-organizational transfers, regardless of dollar value, except the offeror need not provide its evaluation of such cost data.

NOTE: For major subcontractors as defined above, if the subcontract is for purchased material and the offeror can demonstrate that the subcontract item is either commercial or based on adequate price competition, cost information from the subcontractor is not required. Instead, the offeror may provide copies of competitive subcontractor price quotes, or the kind of information noted in FAR 52.215-20(a)(1)(ii).

L.3.3.3 Direct Labor. Provide the total direct labor hours and direct labor cost. Provide a narrative description of the method used to estimate the hours, identifying assumptions used and cost estimating relationships.

L.3.3.4 Other Direct Costs. This may include costs such as vendor tooling, special tooling, travel, etc. Identify each category of proposed Other Direct Cost, and the dollar amount for each category. Provide a brief explanation of what is included in each category and how the cost was estimated.

L.3.3.5 DELETED/RESERVED

L.3.3.6 Contingencies/Adjustments. Identify the nature and amount of any contingencies or any upward or downward adjustment applied to any cost elements or unit prices, and the rationale for the adjustment.

L.3.3.7 DELETED/RESERVED

L.3.4. The Price Volume shall also provide the following information:

a) The grand total dollar amount included for non-recurring costs (before any mark-up for G&A and profit) as identified in the appropriate CLIN; i.e., 0011, 0021, 0031, 0041 as referenced in Section B. The offeror shall also show how the total nonrecurring cost for each program year is divided over the proposed unit prices. Nonrecurring cost includes such costs, where applicable, as plant or equipment relocation or rearrangement, special tooling and special test equipment, preproduction engineering, initial rework, initial spoilage, pilot runs, allocable portions of the cost of facilities to be acquired or established for the conduct of work, costs incurred for the assembly, training and transportation to and from the job site of a specialized work force, and unrealized labor learning.

b) DELETED/RESERVED

L.3.5 All costs/prices shall be in U.S. dollars only, including amounts for the prime contractor and any potential subcontractors. If the basis for the proposal is any other currency, the offeror shall:

- a) State the exchange rate(s) being used to convert his currency to U.S. dollars.  
b) Explain how the offeror plans to deal with the risk that fluctuation in exchange rates may impact this prospective contract, and may have a resultant impact on the offeror's firm.

L.3.6 Additional Information. The Government reserves the right to request detailed information to support or clarify proposed prices if it does not contain the information requested.

L.4 AREA III - LOGISTICS

Describe your experience in, as well as how you intend to meet, in a complete, detailed and comprehensive proposed approach, the following Army logistics requirements: Army Provisioning Parts List (PPL-formerly LSA-036) and Army Technical Manuals. Also, describe how you intend to meet the PD technical requirement regarding maintaining causeway operational capability (PD para 3.3.15.5). You may include in your discussion of this element how you plan to insure delivery of quality items within the time and dollar constraints of this acquisition. If you have no direct logistics experience in Army PPL and production of Army Technical Manuals, then describe your approach to mitigating logistics risks.

L.5 AREA IV - PAST PERFORMANCE/SMALL BUSINESS UTILIZATION

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> DAAE07-00-R-T019 <b>MOD/AMD</b> 0007	<b>Page 27 of 32</b>
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L.5.1 Element 1 - Past Performance:

The Offeror shall submit a description of all previous Government contracts (all prime and major subcontracts, including Federal, State and local government and private industry) received or in performance during the past three (3) years which are in any way relevant to the effort required by this solicitation. Commercial contracts may be included if they are relevant. The description shall include the following information, in the following format, for each contract:

1. Your CAGE and DUNS number
2. The CAGE and DUNS numbers of any significant subcontractors.
3. The Procuring Contracting Officer (PCO) and Administrative Contracting Officer (ACO) names, addresses, telephone numbers and e-mail addresses.
4. The name, address, telephone number and e-mail address of the Government or Commercial contracting activity technical representative, or COR.
5. Contract Number.
6. Contract Type.
7. Award Price/Cost
8. Final, or Projected Final, price or cost.
9. Original contract delivery schedule (prior to any changes, whether mutually agreed to or not)
10. Final or projected delivery schedule.
11. A narrative explanation which describes the objectives achieved, any price/cost growth or schedule delays encountered. For any Government contracts which did not or does not meet the original requirements with regard to schedule or performance, a brief explanation of the reason(s) for such shortcomings and any demonstrated corrective actions taken to avoid recurrence. The offeror shall also provide a copy of any show cause letters or cure notices received on each previous contract listed and a description of any corrective action taken by the offeror or proposed significant subcontractor.
12. If Technical Manuals (written and/or Interactive Electronic Technical Manuals) were required, the applicable standards/specifications to which the manuals were written.
13. Identify in specific detail why or how you consider that historical effort to be relevant to the effort required by this solicitation.
14. The offeror shall also provide the above information for any and all contracts it had terminated, in whole or in part, for default during the past 3 years, to include those currently in the process of termination as well as those which are not similar to the proposed effort.
15. The contractor shall list each time the delivery schedule was revised and provide an explanation of why the revision was necessary.
16. Government Furnished Property.

For each of these contracts the offeror shall submit, to the ACO, PCO and COTR identified, a copy of the questionnaire attached as Exhibit C to RFP DAAE07-00-R-T019, Section L - Past Performance Questionnaire (found in Section J). The ACO, PCO and COTR shall be instructed to complete these questionnaires and return them to the following address no later than 10 days before the solicitation closing date (See Block #9 of SF 33 of RFP):

OUTSIDE ENVELOPE:    Commander

Tank-Automotive and Armaments Command  
EXCLUSIVELY FOR:  
Marcia Czar/AMSTA-LC-CJEB  
Warren, MI 48397-5000

INNER ENVELOPE:                    RFP DAAE07-00-R-T019  
PAST PERFORMANCE  
SOURCE SELECTION    INFORMATION

Offerors shall provide an outline stating how the effort required by the solicitation will be assigned for performance within the contractor's corporate entity and among proposed significant subcontractors. Information required in the above paragraphs shall be provided for each proposed subcontractor who will perform a significant portion of the effort. "Significant" is defined as any non-raw material or component subcontractor with an estimated subcontract dollar value in excess of \$ 500,000 of the proposed total cost. With respect to prime contract assignments that will be performed by you and not a proposed subcontractor, you shall indicate:

1. What internal corporate bodies/divisions will accomplish which portions of the effort;
2. Whether or not those divisions were responsible for performance under the previous cited contracts cited for the instant proposal;
3. If those divisions have relocated since the accomplishment of previously cited contract efforts, description of any changes arising from that relocation in terms of key personnel, facilities and equipment.

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Offerors shall include in their proposal the written consent of their proposed significant subcontractors to allow the Government to discuss the subcontractor's past performance during negotiations.

L.5.1.1 In addition, the offeror shall prepare and submit to US Army TACOM, Marcia Czar, AMSTA-LC-CJEB, Warren, MI 48397-5000 (within seven (7) days of receipt of the RFP) a list of the references to which the past performance questionnaire was sent. The reference list shall contain the following information prepared in the following format:

- (1) Contract Number
- (2) Contract Type
- (3) Program Title or Brief Description (50 words or less) of Work Performed
- (4) P/S (Enter "P" if performed as a prime contractor or "S" if performed as a sub-contractor)
- (5) POC/Telephone No.
- (6) Date Questionnaire Sent

L.5.2 Element 2 - Small Business Utilization: Offerors are to identify historical compliance with FAR 52.219-8, Utilization of Small Business. The evaluation will include information for the last three (3) calendar years addressing:

- 1) a description and documentation of methods used to promote Small Business (SB), HUBZone Small Business (HUBZ SB), Small Disadvantaged Business (SDB), Woman-Owned Small Business (WOSB), and Historically Black College and University/Minority Institutions (HBCU/MIs), and
- 2) description and documentation of internal methods to monitor the utilization of SB, HUBZone SB, SDB, WOSB, and HBCU/MIs.

\*\*\* END OF NARRATIVE L 001 \*\*\*

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SECTION M - EVALUATION FACTORS FOR AWARD

<u>Status</u>	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
M-1 CHANGED 52.247-51	EVALUATION OF EXPORT OFFERS		FEB/1995
<p>(a) <u>Port handling and ocean charges -- other than DoD water terminals</u>. Port handling and ocean charges and tariffs on file with the Bureau of Domestic Regulation, Federal Maritime Commission, or other appropriate regulatory authorities as of the date of bid opening (or the closing date specified for receipt of offers) and which will be effective for the date of the expected initial shipment will be used in the evaluation of offers.</p>			
<p>(b) <u>F.O.B. origin, transportation under Government bill of lading</u>.</p>			
<p>(1) Offers shall be evaluated and awards made on the basis of the lowest laid down cost to the Government at the overseas port of discharge, via methods and ports compatible with required delivery dates and conditions affecting transportation known at the time of evaluation. Included in this evaluation, in addition to the f.o.b. origin price of the item, shall be the inland transportation costs from the point of origin in the United States to the port of loading, port handling charges at the port of loading, and ocean shipping costs from the United States port of loading (see paragraph (d) below) to the overseas port of discharge. The Government may designate the mode of routing of shipment and may load from other than those ports specified for evaluation purposes.</p>			
<p>(2) Offers shall be evaluated on the basis of shipment through one of the ports set forth in paragraph (d) below to the overseas port of discharge. Evaluation shall be made on the basis of shipment through the port that will result in the lowest cost to the Government.</p>			
<p>(3) Ports of loading shall be considered as destinations within the meaning of the term F.O.B. DESTINATION as that term is used in the <u>F.O.B. ORIGIN</u> clause of this contract.</p>			
<p>(c) F.O.B. port of loading with inspection and acceptance at origin. (1) F.O.B. port of loading with inspection and acceptance at origin. Offers shall be evaluated on the basis of the lowest laid down cost to the Government at the overseas port of discharge via methods compatible with required delivery dates and conditions affecting transportation known at the time of evaluation. Included in this evaluation, in addition to the price to the United States port of loading (see paragraph (2) below), shall be the port handling charges at the port of loading and ocean shipping cost from the port of loading and the ocean shipping cost from the port of loading (see paragraph (d) below) to the overseas port of discharge. (2) Unless offers are applicable only to F.O.B. origin delivery under Government bills of lading (see paragraph (b) above), offerors shall designate below at least one of the ports of loading listed in paragraph (d) below as their place of delivery. Failure to designate at least one of the ports as the point to which delivery will be made by the Contractor may render the offer nonresponsive.</p>			

PLACE OF DELIVERY:.....

(Offerors insert at least one of the ports listed in paragraph (d) below.)

(d) Ports of Loading for evaluation of offers. Terminals to be used by the Government in evaluating offers are as follows: (For the information of the offerors, ocean and port handling charges are set forth if the terminal named is a DOD water terminal.)

PORTS/TERMINALS OF LOADING	COMBINED OCEAN AND PORT HANDLING (CHARGES TO (INDICATE COUNTRY)	UNIT OF MEASURE: I.E. METRIC TON, MEASUREMENT TON, CUBIC FOOT, ETC.
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Ft. Eustis, VA

\_\_\_\_(e) Ports of loading nominated by offeror. The ports of loading named in paragraph (d) above are considered by the Government to be appropriate for this solicitation due to their compatibility with methods and facilities required to handle the cargo and types of vessels and to meet the required overseas delivery dates. Notwithstanding the foregoing, offerors may nominate additional ports of loading that the offeror considers to be more favorable to the Government. The Government may disregard such nominated ports if, after considering the quantity and nature of the supplies concerned, the requisite cargo handling capability, the available sailings on U.S.-flag vessels, and other pertinent transportation factors, it determines that use of the nominated

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ports is not compatible with the required overseas delivery date. United States Great Lakes ports of loading may be considered in the evaluation of offers only for those items scheduled in this provision for delivery during the ice-free or navigable period as proclaimed by the authorities of the St. Lawrence Seaway (normal period is between April 15 and November 30 annually). All ports named, including those nominated by offerors and determined to be eligible as provided in this provision, shall be considered in evaluating all offers received in order to establish the lowest laid down cost to the Government at the overseas port of discharge. All determinations shall be based on availability of ocean services by U.S.-flag vessels only. Additional U.S. port(s) of loading nominated by offeror, if any: \_\_\_\_\_.

(f) Deleted.

(g) Paragraphs (c) and (f) have been deleted but ensuing paragraphs have not been redesignated.  
(End of provision)

**M.1 BASIS FOR AWARD**

**M.1.1 Selection of Successful Offeror:** The government intends to award one contract to the Offeror whose proposal represents the best value to the government based on the criteria set forth in this Section M.

**M.1.2 Rejection of Offers:** The government may reject any proposal which

- 1) Merely offers to perform work according to the RFP, or fails to present more than a statement indicating their capability of compliance with the technical requirements, without support or elaboration as specified in Section L.
- 2) Is unrealistic in terms of technical or schedule commitments, or unrealistically high or low in price, and therefore may be deemed reflective of an inherent lack of technical competence, or indicative of a failure to comprehend the complexity and risks involved.
- 3) Reflects any significant inconsistency between proposed performance and price. If this is unexplained, it may be grounds for rejection of the proposal due to an Offeror's misunderstanding of the work required or an inability to perform any resultant contract.

**M.1.3 Risk Assessment:** The government will assess the capability of each Offeror in four areas: Technical, Price, Logistics, and Past Performance/Small Business Utilization. The government will assess the risk of unsuccessful performance. Risk is defined as the probability that the contractor will not provide goods and/or services in accordance with the terms and conditions of the contract. Terms and conditions include the ability to meet the performance and quality level of the deliverable as well as the timeliness of the delivery. The government will consider the following, and may take into account other relevant considerations, when it assesses risk: (i) the feasibility and probability of the approach meeting the specific requirements of the solicitation, (ii) the adequacy, precision, and clarity of the analysis techniques, including rationale, and (iii) the general quality of the proposal, including for example: understanding of the requirement, completeness and thoroughness of the proposal.

**M.2 EVALUATION CRITERIA - GENERAL INFORMATION**

**M.2.1** The Government will award a contract to the Offeror whose proposal offers the best value to the Government. The "Best Value" offer will be determined by using a trade-off process with appropriate consideration of the evaluation criteria.

**M.2.2** Per DOD policy (FAR 9.103), contracts will be placed only with contractors that the contracting officer determines to be responsible (that is, they must meet the standards in FAR 9.104). The PCO may request/require a Pre-Award Survey to help insure that the selected contractor is responsible. A government survey team may contact you to request background information, or to arrange a visit to your facility for the purpose of determining your ability to perform satisfactorily on a contract resulting from this solicitation. Offerors must agree to furnish the administering or auditing region or district and/or this office with any information requested as to technical, financial or production capability to perform any contract resulting from this solicitation. In the event that you receive a request for such information and fail to provide the requested data within seven days from the date that you receive the request, the government may reject your offer under this solicitation.

**M.2.3** The criteria listed herein will be used to evaluate and assess the information provided by the Offerors in response to the solicitation requirements.

**M.2.4** Four areas will be considered in this evaluation: Technical, Price, Logistics, and Past Performance/Small Business Utilization. The Technical and Past Performance/Small Business Areas will be further divided into elements as set forth below.

**M.3 ORDER OF IMPORTANCE**

**M.3.1 Areas:** The Technical area is the most important area and is more important than Price. Price is more important than Logistics. Logistics is more important than Past Performance/Small Business Utilization. In accordance with FAR 15.304(e), the

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non-price areas (Technical, Logistics, and Past Performance/Small Business Utilization), when combined, are significantly more important than the area of Price.

M.3.2 Technical Area Elements: There are two elements within the Technical area: Design and Integration and Production. Design and integration is the most important element and is significantly more important than Production (See M.4).

M.3.3 Price Area: The price area evaluation will consider the total evaluated price to the Government, including transportation The cost of hardware, Technical Manuals, Training and Transportation cost added together will be the total evaluated price to the Government (See M.5).

M.3.4 Logistics Area: There is one element under the logistics area(See M.6).

M.3.5 Past Performance/Small Business Utilization Area Elements: There are two elements in this area, Past Performance and Small Business Utilization. Past Performance is the most important element and is significantly more important than Small Business Utilization.

M.4                      TECHNICAL AREA

M.4.1 Element 1 - Design and Integration: The Offeror's approach to the overall design and integration of components will be assessed (ref L.2.1) and a risk level will be assigned indicating the government's evaluation of the probability that the Offeror will not provide a product which will be delivered in accordance with the specification and other terms and conditions of the contract.

M.4.2 Element 2 - Production Capability: The Government will assess the Offerors production methods and systems described under Manufacturing Plan, Facilities, and Equipment (L.2.2). A risk level will be assigned indicating the Government's evaluation of the probability that the Offeror will not be able to produce the planned quantities in accordance with the schedule of the contract.

M.5                      PRICE AREA

M.5.1 The price area evaluation will consider the total evaluated price to the Government, including transportation. The evaluation will also consider the realism and reasonableness of the proposed price. Reasonableness is interpreted to mean that the price does not exceed what would be incurred by a prudent person in the conduct of competitive business. Realism asks the question "Does the proposal accurately reflect the offeror's proposed effort to meet program requirements and objectives?" Regarding realism, the results of this analysis may be used in performance risk assessments and responsibility determinations. However, the offered prices shall not be adjusted as a result of the realism analysis.

M.5.2 Hardware: The Government will use the price(s) listed in Section B, for a quantity of one each, for each of the program years. A program year is defined as: (1) Base program (date of award of contract plus 546 days), (2) first option period is (Section H-18(b)(547 through 911 days after award of contract)), and (3) second option period is (Section H-18(c)(912 through 1276 days after award of contract)). For each of the ordering periods (base program year and the first and second option periods), the Offeror's proposed prices, as set forth in Section B, for a quantity of one each per CLIN (hardware CLIN 0011, 0012, 0013, 0014, 0021, 0022, 0023, 0024, 0031, 0032, 0033, 0034, 0041, 0042, 0043, 0044, 0051, 0052, 0053, 061, 0062, 0063, 0071, 0072, 0073, 0081, 0082, 0083, 0091, 0092, 0093), as discounted in accordance with H.24, Discount Ordering Provision, will be summed. The sum calculated for each of the above ordering periods would in turn be summed to provide an overall hardware price. This will be the first of three prices added together to form the total evaluated price to the Government.

M.5.3 Technical Manuals and Training: The Offeror's proposed price(s), as set forth in Section B, for each of the ordering periods under CLINs 6000 through 6003(Technical Manuals) and 7000(Training) will be summed and added to the overall Offeror's Hardware price as determined in the above paragraph. This will be the second of three prices added together to form the total evaluated price to the Government.

M.5.4 Transportation: The transportation evaluation costs will be calculated in accordance with M-6. This will be the third of three prices added together to form the total evaluated price to the Government.

M.5.5 Notwithstanding any other provision herein to the contrary, the Government may, at its sole discretion, waive all first article test requirements, or only selected portions of those tests, for any offeror that qualifies for a waiver. In the event a waiver is granted, the amount proposed for the first article test as specified in the relevant CLINs, or any other amount proposed for that portion of the first article test requirement for which waiver is granted, shall be deducted from the total offered price. The remaining dollar amount will constitute the price at which the offer will be evaluated.

M.5.6 In addition, this is a Source Selection Acquisition, using Trade-Off procedures to obtain the Best Value for the Government. As such, the SSA, in making the final Source Selection Trade-Off judgement, will weigh the merits of the non-Price areas of the proposal against the evaluated Price in arriving at the final source selection decision. The closer the offerors' evaluations are in the non-price areas, the more significant the price becomes in making the decision. Despite the fact that price

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is not the most important consideration, it may be controlling:

M.5.6.1 In circumstances where two or more proposals are otherwise considered equal

M.5.6.2 When an otherwise superior proposal is unaffordable

M.5.6.3 When the advantages of a higher priced proposal are not considered to be worth its cost premium.

M.5.6.4 Offerors are cautioned to enter prices for hardware, services, and data items that reflect a fair apportionment of total contract costs, based upon the value to be received by the Government for those items. The Government may determine an offer not eligible for award if it is materially unbalanced as to price. An offer is materially unbalanced as to price when, in the judgment of the Procuring Contracting Officer, it cites prices that are significantly less than cost for some work and significantly more than cost for other work. An unrealistic or unreasonable price may present an unacceptable risk to the Government and may result in elimination of the proposal from the consideration.

**M.6 LOGISTICS AREA**

The Government will evaluate the proposal risk, based on your experience in, as well as your complete, detailed and comprehensive proposed approach to demonstrate your ability to satisfy how you will meet the logistics requirements as they pertain to a Army Provisioning Parts List, preparation of Army Technical Manuals for the MCS, and your meeting the PD requirement regarding maintaining causeway operational capability (PD para 3.3.15.5). The risk level determination is an assessment of the probability of the Offeror being unable to provide the required logistics items in accordance with the terms and conditions of the contract.

**M.7 PAST PERFORMANCE AREA/SMALL BUSINESS UTILIZATION AREA**

M.7.1 In evaluating your past performance/Small Business Utilization, we will consider two elements: Past Performance and Small Business Utilization. Past Performance is significantly more important the Small Business Utilization.

M.7.2 Element 1 - Past Performance: Past performance is a measure of how well an Offeror performed work and satisfied its customers in the past. We will assess the risk that you will not be able to meet the contract delivery schedule based on an assessment of your previous performance. The evaluation will consider the following :

- a. Conformance to the requirements of the contract (both hardware and data)
- b. Conformance to the standards of good workmanship (both hardware and data)
- c. Adherence to delivery schedules
- d. Reasonableness, cooperative behavior, and commitment to customer satisfaction
- e. Subcontractor management
- f. Cost Control

These items are listed to insure that all relevant aspects of past performance are considered in the evaluation. They are not intended to require separate evaluation or relative worth differentiation. When assessing your past performance the Government may use data provided by you and data obtained from other sources, including, but not limited to, the following: Federal, state, and local government agencies, better business bureaus, published media, and electronic data bases. While the Government may consider data obtained from other sources, the burden of providing thorough and complete past performance information rests with you.

M.7.3 Element 2 - Small Business Utilization: The government will evaluate the extent to which offerors have historically complied with FAR 52.219-8, Utilization of Small Business. The evaluation will include an assessment of performance over the past three calendar years in complying with the requirements of FAR 52.219-8.



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## SECTION I - CONTRACT CLAUSES

AUTO	IF0231	52.248-1	01-FEB-00	VALUE ENGINEERING
ADDED	IF0355	52.227-3	01-APR-84	PATENT INDEMNITY
ADDED	IF0370	52.227-11	01-JUN-97	PATENT RIGHTS--RETENTION BY THE CONTRACTOR (SHORT FORM)
ADDED	IF0378	52.227-12	01-JAN-97	PATENT RIGHTS--RETENTION BY THE CONTRACTOR (LONG FORM) (ALT. II, dated June 1989)
ADDED	IA0381	252.227-7034	01-APR-84	PATENTS--SUBCONTRACTS

## SECTION K - REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS

AUTO/DEL	KF7007	52.215-4	01-OCT-97	TYPE OF BUSINESS ORGANIZATION
DELETED	KS7011	52.211-4034	01-NOV-82	IDENTIFICATION OF OFFERED PART NUMBER (TACOM)

## SECTION L - INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS

ADDED	LF0020	52.215-1	01-FEB-00	INSTRUCTIONS TO OFFERORS--COMPETITIVE ACQUISITIONS (ALTERNATE I (OCT 1997) AND ALTERNATE II (OCT 1997))
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## SECTION M - EVALUATION FACTORS FOR AWARD

CHANGED	MF7019	52.247-51	01-FEB-95	EVALUATION OF EXPORT OFFERS
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(a) Port handling and ocean charges -- other than DoD water terminals. Port handling and ocean charges and tariffs on file with the Bureau of Domestic Regulation, Federal Maritime Commission, or other appropriate regulatory authorities as of the date of bid opening (or the closing date specified for receipt of offers) and which will be effective for the date of the expected initial shipment will be used in the evaluation of offers.

(b) F.O.B. origin, transportation under Government bill of lading.

(1) Offers shall be evaluated and awards made on the basis of the lowest laid down cost to the Government at the overseas port of discharge, via methods and ports compatible with required delivery dates and conditions affecting transportation known at the time of evaluation. Included in this evaluation, in addition to the f.o.b. origin price of the item, shall be the inland transportation costs from the point of origin in the United States to the port of loading, port handling charges at the port of loading, and ocean shipping costs from the United States port of loading (see paragraph (d) below) to the overseas port of discharge. The Government may designate the mode of routing of shipment and may load from other than those ports specified for evaluation purposes.

(2) Offers shall be evaluated on the basis of shipment through one of the ports set forth in paragraph (d) below to the overseas port of discharge. Evaluation shall be made on the basis of shipment through the port that will result in the lowest cost to the Government.

(3) Ports of loading shall be considered as destinations within the meaning of the term F.O.B. DESTINATION as that term is used in the F.O.B. ORIGIN clause of this contract.

(c) F.O.B. port of loading with inspection and acceptance at origin. (1) F.O.B. port of loading with inspection and acceptance at origin. Offers shall be evaluated on the basis of the lowest laid down cost to the Government at the overseas port of discharge via methods compatible with required delivery dates and conditions affecting transportation known at the time of evaluation. Included in this evaluation, in addition to the price to the United States port of loading (see paragraph (2) below), shall be the port handling charges at the port of loading and ocean shipping cost from the port of loading and the ocean shipping cost from the port of loading (see paragraph (d) below) to the overseas port of discharge. (2) Unless offers are applicable only to F.O.B. origin delivery under Government bills of lading (see paragraph (b) above), offerors shall designate below at least one of the ports of loading listed in paragraph (d) below as their place of delivery. Failure to designate at least one of the ports as the point to which delivery will be made by the

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Contractor may render the offer nonresponsive.

PLACE OF DELIVERY:.....

(Offerors insert at least one of the ports listed in paragraph (d) below.)

(d) Ports of Loading for evaluation of offers. Terminals to be used by the Government in evaluating offers are as follows:  
(For the information of the offerors, ocean and port handling charges are set forth if the terminal named is a DOD water terminal.)

PORTS/TERMINALS OF LOADING	COMBINED OCEAN AND PORT HANDLING (CHARGES TO (INDICATE COUNTRY)	UNIT OF MEASURE: I.E. METRIC TON, MEASUREMENT TON, CUBIC FOOT, ETC.
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\_\_\_\_(e) Ports of loading nominated by offeror. The ports of loading named in paragraph (d) above are considered by the Government to be appropriate for this solicitation due to their compatibility with methods and facilities required to handle the cargo and types of vessels and to meet the required overseas delivery dates. Notwithstanding the foregoing, offerors may nominate additional ports of loading that the offeror considers to be more favorable to the Government. The Government may disregard such nominated ports if, after considering the quantity and nature of the supplies concerned, the requisite cargo handling capability, the available sailings on U.S.-flag vessels, and other pertinent transportation factors, it determines that use of the nominated ports is not compatible with the required overseas delivery date. United States Great Lakes ports of loading may be considered in the evaluation of offers only for those items scheduled in this provision for delivery during the ice-free or navigable period as proclaimed by the authorities of the St. Lawrence Seaway (normal period is between April 15 and November 30 annually). All ports named, including those nominated by offerors and determined to be eligible as provided in this provision, shall be considered in evaluating all offers received in order to establish the lowest laid down cost to the Government at the overseas port of discharge. All determinations shall be based on availability of ocean services by U.S.-flag vessels only. Additional U.S. port(s) of loading nominated by offeror, if any: \_\_\_\_\_.

(f) Deleted.

(g) Paragraphs (c) and (f) have been deleted but ensuing paragraphs have not been redesignated.  
(End of provision)